

Syllabus

Attachment

Course Title: Analytical Chemistry of Forest Products	Class: University of the second grade	
Instructor: Ming-Hung Tu	Credit: 2	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Elective
Prerequisite:	Course Hours: 2	
1. Course Objectives: To understand the separation and purification technology of forest products. Familiarize themselves with the determination of chemical composition of forest products. So as to help them meet the needs of advanced research.		
2. Course Format and Evaluation: 1. Mid-term Exam. 30% 2. Final Exam. 30% 3. Daily check 40% Credit Requirements:		
3. Course Schedule: 1. Introduction 2. Separation and Purification Technology of Raw Materials 3. Analytical Process using Physical and Chemical Properties (1) Precipitation and Crystall (2) Distillation (3) Extraction (4) Chromatography 4. Titration Analysis (1) Preparation of Standard Solution (2) Titration Technology (3) Usage of Titration 5. Gravimetric Analysis (1) Air Dry and Bone Dry (2) Solid Content of Raw Materials		
4. Textbooks and Readings: 1. 林敬二等(1994)分析化學，全威圖書有限公司。 2. 王秀華(2002)木材化學及其應用，復文書局 3. Eero Sjostrom, Raimo Alen eds. (1999) Analytical Methods in wood Chemistry, Pulping, and Papermaking		

